

Abstract of the Disclosure

A concentrated-winding type stator coil unit for a rotary electric machine is provided with a stator core having a core back and teeth protruding from the core back. Plural coils are wound around the teeth respectively. Each coil is composed of, for example, a first layered coil formed by winding a coil wire in a layer around each tooth to form plural turns arranged in parallel on each tooth and a second layered coil formed by winding the coil wire in a layer to form plural turns around the first layered coil wound around each tooth. The last turn of the first layered coil continues to the first turn of the second layered coil. Both ends of the coil wire are located at and on a base portion of each of the teeth as a winding-start end and a winding-finish end of each of the coils.

15